

WHAT IS CLAIMED IS:

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all
5 1. A picture display apparatus for displaying a picture in response to inputted picture signals of arbitrary format, comprising:

a picture display apparatus having an arranged matrix of dots for picture display,

10 picture display unit drive means for converting inputted picture signals into display picture signals adapted for display on the picture display unit and generating drive timing signals for driving the picture display unit,

15 display position detection means for detecting a picture display position on the picture display unit based on the display picture signals and the drive timing signals, and

20 display position control means for controlling admission of the inputted picture signals to the picture display unit drive means based on the detected display position data from the display position detection means.

25 2. A picture display apparatus according to Claim 1, wherein said picture display unit drive means includes a picture memory for storing inputted picture signal admitted thereto, and generates a horizontal synchronizing signal, a vertical synchronizing signal and a pixel clock signal as the

drive timing signals.

3. A picture display apparatus according to Claim 2, wherein said display position detection means
5 detects a horizontal commencement position of a picture displayed on the picture display unit in terms of a number of pixel clock signals from a rise of the horizontal synchronizing signal until first detection of the display picture signals, and detects a
10 horizontal termination position of the picture in terms of a number of the pixel clock signals from the rise of the horizontal synchronizing signal until the termination of the display picture signals, respectively during one horizontal scanning period, and further detects a vertical commencement position
15 of the picture in terms of a number of horizontal synchronizing signals from a rise of the vertical synchronizing signal until first detection of the display picture signals, and detects a vertical termination position of the picture in terms of a
20 number of horizontal synchronizing signals from the rise of the vertical synchronizing signal until the termination of the display picture signals, respectively in one vertical scanning period, and
25 the display position control means controls a timing of admitting the inputted picture signals into the picture memory in the picture display unit drive

means, based on a difference between detected position data and set timing data for outputting display picture signals, thereby automatically adjusting a picture display position.

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4. A picture display apparatus according to Claim 3, wherein said display position control means is further equipped with a preset data memory for storing ideal values for timing of writing in the picture memory respectively corresponding to a plurality of formats of the input picture signals, and also a means for judging a format of the inputted picture signals based on an inputted horizontal synchronizing signal and an inputted vertical synchronizing signal accompanying the inputted picture signals and for reading out the ideal value of the judged format of the inputted display picture signals.

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